

## United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

## NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

04/21/2003

Zenith Electronics Corporation 2000 Millbrook DRIVE Lincolnshire, IL 60069 EXAMINER

HOYE, MICHAEL W

ART UNIT CLASS-SUBCLASS

2614 725-039000

DATE MAILED: 04/21/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/434,559	11/12/1999	TOM LEE SORENSEN	DF-7141	4098

TITLE OF INVENTION: APPARATUS AND METHOD FOR PROVIDING, RETRIEVING, AND USING DATA GUIDE INFORMATION SUPPLIED IN A DIGITAL VESTIGIAL SIDEBAND SIGNAL

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1300	\$0	\$1300	07/21/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>, THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. <u>THIS STATUTORY PERIOD CANNOT BE EXTENDED</u>. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE

**Commissioner for Patents** Washington, D.C. 20231

(703)746-4000 <u>Fax</u>

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block I, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for

maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

Zenith Electronics Corporation 2000 Millbrook DRIVE Lincolnshire, IL 60069

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission
I hereby certify that this Fee(s) Transmittal is being deposited with the
United States Postal Service with sufficient postage for first class mail in a
envelope addressed to the Box Issue Fee address above, or being facsimile
transmitted to the USPTO, on the date indicated below.

Transferred to the Obl 10, on the date indicated colon.	
	(Depositor's name)
	(Signature)
	(Date)

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nonprovisional	NO	\$1300	\$0	\$1300	07/21/2003
EXAMI	NER	ART UNIT	CLASS-SUBCLASS		
HOYE, MIC	CHAEL W	2614	725-039000		
Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).  □ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  □ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.		2. For printing on the patent fro the names of up to 3 registered or agents OR, alternatively, (2) single firm (having as a meml attorney or agent) and the nan registered patent attorneys or age is listed, no name will be printed.	patent attorneys the name of a per a registered nes of up to 2		

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

4a. The following fee(s) are enclosed:	4b. Payment of Fee(	s):	· · · · · · · · · · · · · · · · · · ·	
☐ Issue Fee	☐ A check in the amount of the fee(s) is enclosed.			
☐ Publication Fee	n Fee ☐ Payment by credit card. Form PTO-2038 is attached.			
☐ Advance Order - # of Copies	The Commissione Deposit Account No	er is hereby authorized	by charge the required fee(s), or credit any (enclose an extra copy of this form).	overpayment, to
Commissioner for Patents is requested to apply	the Issue Fee and Publication Fee (if any) or	to re-apply any previ	ously paid issue fee to the application identif	fied above.
(Authorized Signature)	(Date)	·		

NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

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09/434,559	09/434,559 11/12/1999 TOM LEE SORENSEN		DF-7141 40	
75	90 04/21/2003		EXAMIN	ER
Zenith Electronics 2000 Millbrook DR			НОҮЕ, МІСІ	HAEL W
Lincolnshire, IL 60	· <del></del>	·	ART UNIT	PAPER NUMBER
UNITED STATES			2614	10
			DATE MAILED: 04/21/2003	, -

# Determination of Patent Term Extension under 35 U.S.C. 154 (b) (application filed after June 7, 1995 but prior to May 29, 2000)

The patent term extension is 0 days. Any patent to issue from the above identified application will include an indication of the 0 day extension on the front page.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



### UNITED STATES PATENT AND TRADEMARK OFFICE

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United States Patent and Trademark Office
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/434,559 11/12/1999		TOM LEE SORENSEN	DF-7141	4098
7:	590 04/21/2003	· [	EXAMIN	ER
Zenith Electronics Corporation 2000 Millbrook DRIVE		HOYE, MICHAEL W		
Lincolnshire, IL 60		. [	ART UNIT	PAPER NUMBER
UNITED STATES			2614	10
		D	ATE MAILED: 04/21/2003	

### Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

			$-\infty$
	Application No.	Applicant(s)	$\mathcal{A}_{\mathcal{A}}$
•	09/434,559	SORENSEN, TOM	LEE
Notice of Allowability	Examiner	Art Unit	
	Michael W. Hoye	2614	
	Wilchael VV. Hoye	2014	<u> </u>
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSE or other appropriate coll GHTS. This application	ED in this application. If not include mmunication will be mailed in due	ded e course. <b>THIS</b>
1. This communication is responsive to <u>Amendment A filed o</u>	n 1/29/03 and Amendm	ent B filed on 2/10/03.	
2. The allowed claim(s) is/are <u>1-24</u> .			
3. The drawings filed on <u>01 February 2000</u> are accepted by the	he Examiner.		
4. Acknowledgment is made of a claim for foreign priority und a) All b) Some* c) None of the:	ler 35 U.S.C. § 119(a)-(	d) or (f).	
1. Certified copies of the priority documents have	been received.		
2. Certified copies of the priority documents have	been received in Applic	cation No	
3. Copies of the certified copies of the priority do	cuments have been reco	eived in this national stage applic	ation from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
5. Acknowledgment is made of a claim for domestic priority un	nder 35 U.S.C. § 119(e)	(to a provisional application).	
(a) The translation of the foreign language provisional a	pplication has been rece	eived.	
6. Acknowledgment is made of a claim for domestic priority un	nder 35 U.S.C. §§ 120 a	ınd/or 121.	
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of 7.   A SUBSTITUTE OATH OR DECLARATION must be submit to the complete of th	this application. THIS anitted. Note the attached	THREE-MONTH PERIOD IS NOT IS NOT IT IN IT IS NOT IT IN IT IS NOT IT IS NOT IT IN IT	T EXTENDABLE.
INFORMAL PATENT APPLICATION (PTO-152) which gives reas	on(s) why the oath or do	eclaration is deficient.	
8. CORRECTED DRAWINGS must be submitted.			
(a) including changes required by the Notice of Draftspers	son's Patent Drawing Re	eview ( PTO-948) attached	
1) hereto or 2) to Paper No			
(b) including changes required by the proposed drawing of	correction filed,	which has been approved by the	Examiner.
(c) including changes required by the attached Examiner	s Amendment / Comme	ent or in the Office action of Pape	r No
Identifying indicia such as the application number (see 37 CFR 1 of each sheet. The drawings should be filed as a separate paper			
9. DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT FOR T			Note the
Attachment(s)			
1☐ Notice of References Cited (PTO-892)	2∏ Noti	ce of Informal Patent Application	(PTO-152)
3 Notice of Draftperson's Patent Drawing Review (PTO-948)	4☐ Inter	rview Summary (PTO-413), Pape	
5 Information Disclosure Statements (PTO-1449), Paper No		miner's Amendment/Comment	r Allowanaa
7 Examiner's Comment Regarding Requirement for Deposit of Biological Material	8⊠ Exai 9∏ Othe	miner's Statement of Reasons for er	Allowalice
		•	

Application/Control Number: 09/434,559

Art Unit: 2614

## **DETAILED ACTION**

## Response to Arguments

- 1. Applicant's arguments, see Amendment responsive to October 23, 2002 Office Action, on pg. 7, lines 17-21 and pg. 8, lines 3-4, filed January 29, 2003, with respect to independent claim 1 have been fully considered and are persuasive. The rejection of claim 1 has been withdrawn.
- 2. Applicant's arguments, see Amendment responsive to October 23, 2002 Office Action, on pg. 9, lines 14-21, filed January 29, 2003, with respect to independent claim 10 have been fully considered and are persuasive. The rejection of claim 10 has been withdrawn.
- 3. Applicant's arguments, see Amendment responsive to October 23, 2002 Office Action, on pg. 10, lines 14-17 and lines 20-24, filed January 29, 2003, with respect to independent claim 18 have been fully considered and are persuasive. The rejection of claim 18 has been withdrawn.
- 4. Applicant's arguments, see Amendment responsive to October 23, 2002 Office Action, on pg. 11, line 9 pg. 12, line 6, filed January 29, 2003, with respect to independent claim 22 have been fully considered and are persuasive. The rejection of claim 22 has been withdrawn.

## Allowable Subject Matter

5. The following is an examiner's statement of reasons for allowance: Claims 1-24 are allowed.

As for independent claim 1, the prior art, alone or in combination, does not teach or fairly suggest a data guide identifying types of data transmitted on multiple channels of a digital

Application/Control Number: 09/434,559

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broadcast signal and the channels on which the identified types of data are available. As for the most pertinent prior art of record, the Schneidewend et al (USPN 6,182,287) reference teaches a service guide that discloses various services that are available and the data associated with the corresponding service. However, the services available do not all originate from a digital broadcast signal, some of the services such as the television networks and the radio station show a channel number in the guide with corresponding data listed, other services are listed with no channel number (see Fig. 4). Also, the list of favorites does not disclose a channel number with the identified types of data listed except for the television and satellite channels, but these are separate broadcast signals and not multiple channels of a digital broadcast signal (see Fig. 4). In the applicant's invention these features of the data guide are specifically disclosed.

As for independent claim 10, the prior art, alone or in combination, does not teach or fairly suggest a data guide summarizing types of data transmitted in a digital broadcast signal and the channels corresponding to the types of data. As for the most pertinent prior art of record, the Schneidewend et al (USPN 6,182,287) reference teaches a service guide that discloses various services that are available and the data associated with the corresponding service. However, the services available do not all originate from a digital broadcast signal, some of the services such as the television networks and the radio station show a channel number in the guide with corresponding data listed, other services are listed with no channel number (see Fig. 4). Also, the list of favorites does not disclose a channel number with the identified types of data listed except for the television and satellite channels, but these are separate broadcast signals and not multiple channels of a digital broadcast signal (see Fig. 4). In the applicant's invention these features of the data guide are specifically disclosed.

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As for independent claim 18, the prior art, alone or in combination, does not teach or fairly suggest receiving a digital broadcast signal, detecting types of data transmitted within the at least one data packet and channels on which the detected types of data are available and displaying the detected types of data and the channels on which the detected types of data are available. As for the most pertinent prior art of record, the Schneidewend et al (USPN 6,182,287) reference teaches a service guide that discloses various services that are available and the data associated with the corresponding service. However, the services available do not all originate from a digital broadcast signal, some of the services such as the television networks and the radio station show a channel number in the guide with corresponding data listed, other services are listed with no channel number (see Fig. 4). Also, the list of favorites does not disclose a channel number with the identified types of data listed except for the television and satellite channels, but these are separate broadcast signals and not multiple channels of a digital broadcast signal (see Fig. 4). In the applicant's invention these features of the data guide are specifically disclosed.

As for independent claim 22, the prior art, alone or in combination, does not teach or fairly suggest a data guide containing a list of the types of data receivable by the digital program receiver and the corresponding RF channels in which the data is present. As for the most pertinent prior art of record, the Schneidewend et al (USPN 6,182,287) reference teaches a service guide that discloses various services that are available and the data associated with the corresponding service. However, the services available do not all originate from a digital broadcast signal, some of the services such as the television networks and the radio station show a channel number in the guide with corresponding data listed, other services are listed with no

RF channel number (see Fig. 4). Also, the list of favorites does not disclose a RF channel number with the identified types of data listed except for the television and satellite channels, but these are separate broadcast signals and not multiple channels of a digital broadcast signal (see Fig. 4). The Klosterman et al (USPN 5,940,073) discloses a program schedule guide with channel names and a channel with a web-site link as shown in Fig. 6(b). However the Klosterman et al patent does not disclose the corresponding RF channels in the program guide. In the applicant's invention these features of the data guide are specifically disclosed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael W. Hoye whose telephone number is (703) 305-6954. The examiner can normally be reached on Monday to Friday from 8:30 AM to 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Miller, can be reached at (703) 305-4795.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

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Page 6

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Michael W. Hoye April 16, 2003

JOHN MILLER

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600